

Section 1. Registration Information

Source Identification

Facility Name:	Air Products and Chemicals - Phoenix, AZ
Parent Company #1 Name:	Air Products and Chemicals, Inc.
Parent Company #2 Name:	

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	5-year update (40 CFR 68.190(b)(1))
Description:	
Receipt Date:	24-Jun-2013
Postmark Date:	24-Jun-2013
Next Due Date:	24-Jun-2018
Completeness Check Date:	24-Mar-2014
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0018 3516
Other EPA Systems Facility ID:	

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	37611688
Parent Company #1 DUNS:	3001070
Parent Company #2 DUNS:	

Facility Location Address

Street 1:	4625 36th Street
Street 2:	
City:	Phoenix
State:	ARIZONA
ZIP:	85040
ZIP4:	
County:	MARICOPA

Facility Latitude and Longitude

Latitude (decimal):	33.405111
Longitude (decimal):	-112.002473
Lat/Long Method:	Address Matching - Nearest Intersection
Lat/Long Description:	Plant Entrance (General)
Horizontal Accuracy Measure:	25
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	

Owner or Operator

Operator Name:	Air Products and Chemicals
Operator Phone:	(602) 437-0144

Mailing Address

Operator Street 1:	4625 36th Street
Operator Street 2:	
Operator City:	Phoenix
Operator State:	ARIZONA
Operator ZIP:	85040
Operator ZIP4:	
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Anthony Peralta
RMP Title of Person or Position:	Plant Manager
RMP E-mail Address:	

Emergency Contact

Emergency Contact Name:	Anthony Peralta
Emergency Contact Title:	Plant Manager
Emergency Contact Phone:	(602) 300-6768
Emergency Contact 24-Hour Phone:	(602) 300-6768
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	peraltae@airproducts.com

Other Points of Contact

Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	
Facility or Parent Company WWW Homepage Address:	

Local Emergency Planning Committee

LEPC:	Phoenix Fire Department
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Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	11
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes
CAA Title V:	
Air Operating Permit ID:	

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	21-Feb-2011
Last Safety Inspection Performed By an External Agency:	EPA

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:	Thomas Willer
Preparer Phone:	(918) 266-8800
Preparer Street 1:	1115 West Keystone Avenue
Preparer Street 2:	
Preparer City:	Catoosa
Preparer State:	OKLAHOMA
Preparer ZIP:	74015
Preparer ZIP4:	
Preparer Foreign State:	
Preparer Foreign Country:	
Preparer Foreign ZIP:	

Confidential Business Information (CBI)

CBI Claimed:
Substantiation Provided:
Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents:	See Section 6. Accident History below to determine if there were any accidents reported for this RMP.
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Process Chemicals

Process ID:	1000042649
Description:	Cylinder Gas Storage
Process Chemical ID:	1000051215
Program Level:	Program Level 3 process
Chemical Name:	Arsine
CAS Number:	7784-42-1
Quantity (lbs):	3000
CBI Claimed:	
Flammable/Toxic:	Toxic

Process ID:	1000042648
Description:	Cylinder Gas Storage
Process Chemical ID:	1000051214
Program Level:	Program Level 3 process
Chemical Name:	Hydrogen chloride (anhydrous) [Hydrochloric acid]
CAS Number:	7647-01-0
Quantity (lbs):	16800
CBI Claimed:	
Flammable/Toxic:	Toxic

Process NAICS

Process ID:	1000042648
Process NAICS ID:	1000043032
Program Level:	Program Level 3 process
NAICS Code:	42469
NAICS Description:	Other Chemical and Allied Products Merchant Wholesalers

Process ID:	1000042649
Process NAICS ID:	1000043033
Program Level:	Program Level 3 process
NAICS Code:	42469
NAICS Description:	Other Chemical and Allied Products Merchant Wholesalers

Section 2. Toxics: Worst Case

Toxic Worst ID: 1000035119

Percent Weight:	100.0
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Urban

Passive Mitigation Considered

Dikes:
Enclosures:
Berms:
Drains:
Sumps:
Other Type:

Section 3. Toxics: Alternative Release

Toxic Alter ID: 1000037090

Percent Weight:	
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Wind Speed (m/sec):	3.0
Atmospheric Stability Class:	D
Topography:	Urban

Passive Mitigation Considered

Dikes:
Enclosures:
Berms:
Drains:
Sumps:
Other Type:

Active Mitigation Considered

Sprinkler System:
Deluge System:
Water Curtain:
Neutralization:
Excess Flow Valve:
Flares:
Scrubbers:
Emergency Shutdown:
Other Type:

Toxic Alter ID: 1000037091

Percent Weight:	100.0
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP*Comp(TM)
Wind Speed (m/sec):	3.0
Atmospheric Stability Class:	D
Topography:	Urban

Passive Mitigation Considered

Dikes:
Enclosures:
Berms:
Drains:
Sumps:
Other Type:

Active Mitigation Considered

Sprinkler System:
Deluge System:
Water Curtain:
Neutralization:
Excess Flow Valve:
Flares:
Scrubbers:

Emergency Shutdown:

Other Type:

Section 4. Flammables: Worst Case

No records found.

Section 5. Flammables: Alternative Release

No records found.

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

Cylinder Gas Storage

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000043854
Chemical Name:	Hydrogen chloride (anhydrous) [Hydrochloric acid]
Flammable/Toxic:	Toxic
CAS Number:	7647-01-0

Prevention Program Level 3 ID:	1000037086
NAICS Code:	42469

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	21-Mar-2013
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	21-Mar-2013
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The Technique Used

What If:	Yes
Checklist:	Yes
What If/Checklist:	
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	21-Mar-2014

Major Hazards Identified

Toxic Release:	Yes
Fire:	
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	Yes
Overfilling:	
Contamination:	Yes
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	Yes
Floods (Flood Plain):	

Tornado:	Yes
Hurricanes:	Yes
Other Major Hazard Identified:	

Process Controls in Use

Vents:	
Relief Valves:	Yes
Check Valves:	
Scrubbers:	
Flares:	
Manual Shutoffs:	
Automatic Shutoffs:	
Interlocks:	
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	
Backup Pump:	
Grounding Equipment:	Yes
Inhibitor Addition:	
Rupture Disks:	Yes
Excess Flow Device:	
Quench System:	
Purge System:	
None:	
Other Process Control in Use:	

Mitigation Systems in Use

Sprinkler System:	Yes
Dikes:	
Fire Walls:	Yes
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	
Neutralization:	
None:	
Other Mitigation System in Use:	electrical classification

Monitoring/Detection Systems in Use

Process Area Detectors:	
Perimeter Monitors:	
None:	
Other Monitoring/Detection System in Use:	Routine Portable Gas Monitoring & Periodic Inspections

Changes Since Last PHA Update

Reduction in Chemical Inventory:	
Increase in Chemical Inventory:	Yes
Change Process Parameters:	
Installation of Process Controls:	

Installation of Process Detection Systems:
Installation of Perimeter Monitoring Systems:
Installation of Mitigation Systems:
None Recommended: Yes
None:
Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 02-Apr-2013

Training

Training Revision Date (The date of the most recent review or revision of training programs): 04-Feb-2013

The Type of Training Provided

Classroom: Yes
On the Job: Yes
Other Training: Computer based training

The Type of Competency Testing Used

Written Tests: Yes
Oral Tests:
Demonstration: Yes
Observation: Yes
Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 01-May-2011

Equipment Inspection Date (The date of the most recent equipment inspection or test): 15-Apr-2013

Equipment Tested (Equipment most recently inspected or tested): Fire Sprinkler System

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures): 18-May-2013

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 01-May-2009

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review): 18-Mar-2010

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 30-Jan-2012

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 02-Mar-2012

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 30-Apr-2010

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 31-Jan-2012

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 12-Mar-2012

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 13-Feb-2013

Confidential Business Information

CBI Claimed:

Description

Cylinder Gas Storage

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000043855
Chemical Name:	Arsine
Flammable/Toxic:	Toxic
CAS Number:	7784-42-1

Prevention Program Level 3 ID:	1000037087
NAICS Code:	42469

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	21-Mar-2013
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	21-Mar-2013
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The Technique Used

What If:	Yes
Checklist:	Yes
What If/Checklist:	
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	21-Mar-2014

Major Hazards Identified

Toxic Release:	Yes
Fire:	
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	Yes
Overfilling:	
Contamination:	Yes
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	Yes
Floods (Flood Plain):	
Tornado:	Yes
Hurricanes:	Yes
Other Major Hazard Identified:	

Process Controls in Use

Vents:	
Relief Valves:	

Check Valves:
Scrubbers:
Flares:
Manual Shutoffs:
Automatic Shutoffs:
Interlocks:
Alarms and Procedures: Yes
Keyed Bypass:
Emergency Air Supply:
Emergency Power:
Backup Pump:
Grounding Equipment: Yes
Inhibitor Addition:
Rupture Disks:
Excess Flow Device:
Quench System:
Purge System:
None:
Other Process Control in Use:

Mitigation Systems in Use

Sprinkler System: Yes
Dikes:
Fire Walls: Yes
Blast Walls:
Deluge System:
Water Curtain:
Enclosure:
Neutralization:
None:
Other Mitigation System in Use: Electrical classification

Monitoring/Detection Systems in Use

Process Area Detectors:
Perimeter Monitors:
None:
Other Monitoring/Detection System in Use: Routine Portable Gas Monitoring & Periodic inspections

Changes Since Last PHA Update

Reduction in Chemical Inventory:
Increase in Chemical Inventory:
Change Process Parameters:
Installation of Process Controls:
Installation of Process Detection Systems:
Installation of Perimeter Monitoring Systems:
Installation of Mitigation Systems:
None Recommended: Yes
None:
Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 02-Apr-2013

Training

Training Revision Date (The date of the most recent review or revision of training programs): 04-Feb-2013

The Type of Training Provided

Classroom: Yes
On the Job: Yes
Other Training: Computer based training (CBT)

The Type of Competency Testing Used

Written Tests: Yes
Oral Tests:
Demonstration: Yes
Observation: Yes
Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 01-May-2011

Equipment Inspection Date (The date of the most recent equipment inspection or test): 15-Apr-2013

Equipment Tested (Equipment most recently inspected or tested): Fire Sprinkler System

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures): 04-Aug-2011

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 01-May-2009

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review): 04-Aug-2011

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 30-Jan-2012

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 02-Mar-2012

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 30-Apr-2010

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 31-Jan-2012

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 12-Mar-2012

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 13-Feb-2013

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?): Yes

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?): Yes

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?): Yes

Healthcare (Does facility's ER plan include information on emergency health care?): Yes

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan): 06-Aug-2012

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees): 07-Jun-2012

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): Phoenix Fire Department

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (602) 262-6323

Subject to

OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120: Yes

Clean Water Regulations at 40 CFR 112:

RCRA Regulations at CFR 264, 265, and 279.52:

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:

State EPCRA Rules or Laws: Yes

Other (Specify):

Executive Summary

Air Products and Chemicals, Inc.
Phoenix, AZ

At this facility, we store chemical gases regulated under the CAA RMP regulations. Safety and security of the chemicals is guided by applicable local, state, and federal regulations and/or industry standards. Security is specifically addressed through a security and vulnerability assessment (SVA) performed under the the ACC guidelines. The SVA was verified by the Phoenix Police Department to ensure effectiveness.

1.1 Accidental release prevention and emergency response policies:

The containers are unloaded from a delivery vehicle for various periods of time, and then are loaded and delivered to the final user. It is our policy to adhere to all applicable federal and state rules and regulations. Air Products manages the safety of the regulated processes as identified in Process Hazard Analysis (PHA) with engineering controls, administrative controls and industry best practices.

1.2 The stationary source and regulated substances handled:

The primary purpose of this facility is the storage and the redelivery of a variety of compressed gases and chemicals to the end user. The regulated substances are delivered to this facility in portable, DOT approved, shipping and storage containers. They are stored here until needed by the final user, at which time they are inspected prior to shipment and loaded onto a transport vehicle and delivered to the final user location. There is no chemical reaction involved, and neither is there any transfer of product from one container to another.

1.3 The worst-case release scenario(s) and the alternative release scenario(s), include administrative controls and mitigation measures to limit the distance for each reported scenario:

Air Products employs a number of administrative controls to limit the potential and magnitude of releases. Foremost has been the decision to limit regulated substances to storage only. Further, Air Products segregates material to reduce the potential of incompatible materials coming in contact with one another. Segregation is accomplished through a combination of distance and/or masonry barriers. Air Products consciously controls the on-site inventory of gases to limit the potential magnitude of a site release.

1.4 The general accidental release prevention program and specific prevention steps:

The facility developed prevention program elements based on the Federal EPA Accidental Release Prevention Plan. This facility was designed and constructed to comply with applicable state and industry codes.

Chemical specific prevention steps begin with the decision that all three regulated substances would be on-site for storage only. Products are segregated by compatible hazards to minimize any potential reactions should an accident occur.

1.5 Five-year accident history:

There have been no accidents involving or accidental releases of any of the covered chemicals that resulted in any deaths, injuries, or significant property damage on site, or known off-site deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage.

1.6 The emergency response program:

The emergency response plan includes procedures for the notification of the local fire authority and Hazardous Materials unit so that appropriate measures can be taken by local emergency responders to control accidental releases. The facility maintains an Site Emergency Action Plan (SEAP) that contains specific procedures for employees to take in the event of an emergency or accidental release. This information also contains the names and numbers of responding outside agencies. Emergency actions and response activities have been reviewed with the Fire Department.

1.7 Planned changes to improve safety:

The facility resolves recommendations from PHAs and incident investigations, some of which may result in modifications to the plant design and operating procedures.